

## ABSTRACT OF THE DISCLOSURE

A transmission circuit includes: a modulated signal generator for outputting a modulated signal; an envelope detector for outputting an amplitude modulated voltage; an amplitude roll-off LPF for attenuating the amplitude modulated voltage by using a damping property represented by an exponential function in which an argument is exponentially proportional to a frequency; a power-supply-voltage generator for generating a power supply voltage in accordance with an amplitude value of the amplitude modulated voltage; a phase detector for outputting a phase modulated signal; a phase roll-off LPF for attenuating the phase modulated signal by using a damping property represented by an exponential function in which an argument is exponentially proportional to an offset frequency with respect to a center frequency; and an RF power amplifier.